

PCB Plastic Clip Bearings



Product Features

The self-lubricated bearing is developed specially for the metal plate fitting. It is made with the EPB3M material which is good at shock absorption and wear resistance. Alternative material EPB5 is also available for high temperature application and corrosion resistance requirement.

- Maintenance free, self-lubricated.
- Side groove designation for easy assembly.
- Groove design reserves the material expansion allowance.
- Safety double flanges designation.
- Suitable for rotation and sliding motions.
- Lower tolerance requirement for the mounting holes.

Structure Design

PCB Plastic clip bearing is designed with double flange to protect the shaft mounted through metal housings. The double flange and slipped gap ensures easy assembly of the bearings. The double flange design can also protect the bearing from moving out of the housing.

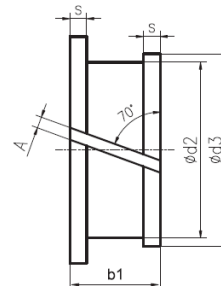
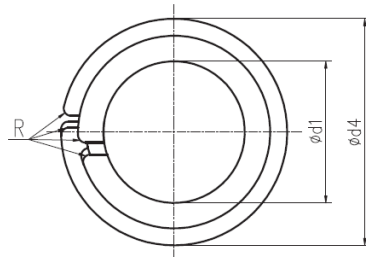
Material Design

Standard Size Sheet PCB Plastic Clip Bearing is made from EPB3M material which is a good wear resistance polymer. The bearing self-lubricating performance is excellent for dry operation conditions. At the same time, continuous lubricating is allowed during the operation because this material is also with good isolation feature against the most common lubricants.

Assembly Design

During the assembly, the bearing is pressed into the housing from the smaller flange end until the bigger flange end is pressed into the position. The spiral shape slip gap could not only make the bearing easy to be pressed into the metal housing, but also help to compensate any possible material expansion caused by the squeeze derived from the pressing. The recommended housing tolerance is H7 while the bearing could fit with the housing tolerance range up to H13. The bearing is allowed to be rotating in the housing after assembling.

Standard Size PCB Clip Bearings



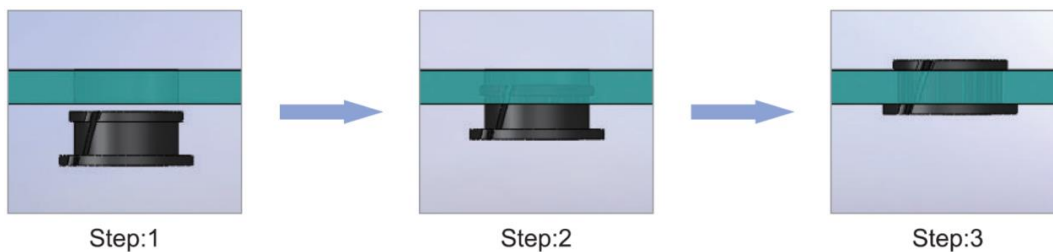
PCB-05-02
 High
 Inner diameter

Order P/N	d1 mm	Tolerance mm	d2 mm	d3 mm	d4 mm	s-0.10 mm	b1+0.20 mm
PCB-05-02	5	+0.030/+0.105	6.2	6.8	8	0.6	3.2
PCB-05-03	5	+0.030/+0.105	6.2	6.8	8	0.6	4.2
PCB-06-02	6	+0.030/+0.105	7.2	7.8	11	0.6	3.2
PCB-06-03	6	+0.030/+0.105	7.2	7.8	11	0.6	4.2
PCB-08-02	8	+0.040/+0.130	9.6	10.4	13	0.8	3.6
PCB-08-03	8	+0.040/+0.130	9.6	10.4	13	0.8	4.6
PCB-10-014	10	+0.040/+0.130	11.6	12.4	15	0.8	3
PCB-10-02	10	+0.040/+0.130	11.6	12.4	15	0.8	3.6
PCB-10-03	10	+0.040/+0.130	11.6	12.4	15	0.8	4.6
PCB-12-02	12	+0.050/+0.160	13.6	14.4	17	0.8	3.6
PCB-12-03	12	+0.050/+0.160	13.6	14.4	17	0.8	4.6
PCB-14-03	14	+0.050/+0.160	15.6	16.4	19	0.8	4.6
PCB-16-02	16	+0.050/+0.160	17.6	18.4	21	0.8	3.6
PCB-16-03	16	+0.050/+0.160	17.6	18.4	21	0.8	4.6
PCB-18-03	18	+0.050/+0.160	20	21	23	1	5
PCB-20-03	20	+0.065/+0.195	22	23	25	1	5
PCB-25-03	25	+0.065/+0.195	27	28	30	1	5

Unit Table in mm

* Tolerance d1: after being pressed into housing H7 (ISO 3547-1)

PCB Plastic Clip Bearings Installation Method



Step:1

Step:2

Step:3

Disclaimer

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